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10/728,692	12/05/2003	Grigore Rusu	DC-05675	9987
33438 7590 06/16/2008 HAMILTON & TERRILE, LLP P.O. BOX 203518 AUSTIN, TX 78720				
EXAMINER McCORMICK, GABRIELLE A				
ART UNIT		PAPER NUMBER		
3629				
NOTIFICATION DATE		DELIVERY MODE		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docketing@hamiltontertile.com
seaton@hamiltontertile.com
tmunoz@hamiltontertile.com

Office Action Summary

Application No.

10/728,692

Applicant(s)

RUSU, GRIGORE

Examiner

GABRIELLE MCCORMICK

Art Unit

3629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 May 2008.
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-20 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 05 May 2008 & 05 December 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SI-08)
Paper No(s)/Mail Date _____
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____

DETAILED ACTION

Status of Claims

1. This action is in reply to the amendment filed on May 5, 2008.
2. Claims 1-20 are currently pending and have been examined.

Drawings

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include all of the following reference sign(s) mentioned in the description: Fig. 2 does not contain labeling of reference numbers 44 and 52 that allow it to correlate to the specification's description (using reference numbers) of the figure on page 9.
4. Fig. 3 does not contain any labeling of reference numbers that allow it to correlate to the specification's description of the figure on page 9. This portion of the specification is also objected to (see below) for a lack of reference numbers. The term "SRG" is not defined by the specification or drawing.
5. The ability to understand the invention through the combination of the specification and the drawings is limited as the result of the omission of the proper correlation of the specification to figures 2 and 3.
6. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

7. The specification is objected to for failure to provide references to the salient objects in Figure 3, such as "a characteristic of interest", "the directed graph", "an edge having a predetermined relative volume of transition", "detailed views". Without reference numbers to correlate to the figure, the ability to understand the scope of the invention is limited. The specification also fails to define the term, "SRG".

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. **Claims 1-20** are rejected under 35 U.S.C. 103(a) as being unpatentable over Macleod Beck et al. (US Pub. No. 2002/0055853, hereafter referred to as "Macleod") in view of Leshem et al. (US Pat. No. 6,341,310, hereafter referred to as "Leshem").
10. **Claim 1:** Macleod discloses
- *an event log module operable to accept one or more event logs from each of the plural contact mediums, each event log having plural contact sessions, each contact session having one or more time-stamped user interactions, each interaction with a labeled reference, each labeled reference providing information about the product; ("multimedia threading" (P[0151]) provides event logging for plural contact mediums and contact sessions (P[0059]: "recording all agent/customer interactions" using "e-mail, videomail, file transfers, chat sessions, IP calls, and CTI COST transactions such as voice calls, voice mails, faxes..."); time-stamp (P[0156]) and product label (P[0157]: "a thread or string may represent dialog about a customer, product..." and "An identifier is assigned to an entity"))*

- *an event modeling engine interfaced with the event log module and operable to compile the event logs as a temporal relationship of customer interactions in a contact session through one or more of the contact mediums; (P[0284]: associations are derived from stored and real-time data records (i.e., event logs); P[0300]: dialog sorter recognizes the time/date stamp in order to organize dialogs. P[0311]: the specialized threads created may aid the enterprise in such areas as improving customer service and streamlining operations.)*
 - *an event tracking graphical user interface (P[0301]: a display allows an interactive picture of the new thread and may appear as a tree connecting various interactive icons representing the dialog and associated hard media (i.e., contact medium))*
11. Macleod does not disclose *a directed graph having a node for each labeled reference, the nodes interconnected by edges derived from the time stamps to order nodes or displaying the directed graph.*
12. Leshem, however, discloses displaying URLs of a site map where each "visible link is displayed as a one-way arrow (indicating link direction)" (C29; L8-13), nodes interconnected by edges (C19; L37-39) and "using access date/time stamps to determine the chronological sequence of URLs followed by each visitor" (C28; L33-35). Fig. 19 is a directed graph displayed by the system.)
13. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included displaying directed graphs with nodes interconnected by edges, as disclosed by Leshem in the system disclosed by Macleod, for the motivation of providing a method of tracking user activity and behavior patterns to graphically display the information on a site map. (Leshem; C27; L63-66). This feature permits fine-grain inspection of the site usage data which is useful for analyzing security attacks and studying visitor behavior patterns. (Leshem; C30; L35-38) One would be motivated to expand Macleod to use this data analysis means to supplement its STM module that is geared toward improving customer service and streamlining operations. (Macleod; P[0311]).
14. Further, Macleod discloses that agents have web access (P[0096-97]), thus the system of Macleod is capable of using the system of Leshem to track, not only customer web interactions,

but also agent interactions, thus producing graphical displays of both user type activities with the predictable results of tracking and storing URL access in a chronological manner for customers and agents accessing web pages and scripts while interacting with customers.

15. Claim 11: Macleod discloses

- *logging product user interactions through the contact mediums by product user identifications, product information labeled references and time stamps;* ("multimedia threading" (P[0151]) provides event logging for *contact mediums* and user interactions (P[0059]: "recording all agent/customer interactions" using "e-mail, videomail, file transfers, chat sessions, IP calls, and CTI COST transactions such as voice calls, voice mails, faxes..."; time-stamp (P[0156]) and product label (P[0157]: "a thread or string may represent dialog about a customer, product..." and "An identifier is assigned to an entity"))
- *identifying contact sessions of product users, each contact session having one or more product information labeled references associated with a product user identification within a predetermined time;* (time-stamp (P[0156]) and product label (P[0157]: "a thread or string may represent dialog about a customer, product..." and "An identifier is assigned to an entity"; P[0103]: access may be controlled through subscription, thus a customer ID is provided)
- *compiling the contact sessions* (P[0284]: associations are derived from stored and real-time data records (i.e., event logs); P[0300]: dialog sorter recognizes the time/date stamp in order to organize dialogs. P[0311]: the specialized threads created may aid the enterprise in such areas as improving customer service and streamlining operations.)
- *presenting a visualization of the contact sessions* (P[0301]: a display allows an interactive picture of the new thread and may appear as a tree connecting various interactive icons representing the dialog and associated hard media (i.e., contact medium))

16. Macleod does not disclose a *directed graph having a node associated with each product information labeled reference, the nodes interconnected by edges, each edge associated with a*

user interaction at two nodes within the predetermined time, the edges defining a path between nodes for each contact session or highlighting edges having a predetermined characteristic.

17. Leshem, however, discloses displaying URLs of a site map where each "visible link is displayed as a one-way arrow (indicating link direction)" (C29; L8-13), nodes interconnected by edges (C19; L37-39) and "using access date/time stamps to determine the chronological sequence of URLs followed by each visitor" (C28; L33-35). Color coding is used to display the user activity (C27; L62-65) Fig. 19 is a directed graph displayed by the system.)
18. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included displaying directed graphs with nodes interconnected by edges, as disclosed by Leshem in the system disclosed by Macleod, for the motivation of providing a method of tracking user activity and behavior patterns to graphically display the information on a site map. (Leshem; C27; L63-66). This feature permits fine-grain inspection of the site usage data which is useful for analyzing security attacks and studying visitor behavior patterns. (Leshem; C30; L35-38) One would be motivated to expand Macleod to use this data analysis means to supplement its STM module that is geared toward improving customer service and streamlining operations. (Macleod; P[0311]).
19. Further, Macleod discloses that agents have web access (P[0096-97]), thus the system of Macleod is capable of using the system of Leshem to track, not only customer web interactions, but also agent interactions, thus producing graphical displays of both user type activities with the predictable results of tracking and storing URL access in a chronological manner for customers and agents accessing web pages and scripts while interacting with customers.
20. **Claims 2, 3, 4, 8, 12, 13, 14 and 15:** Macleod discloses a self-help wizard (P[0369-0373] loaded on a computer (i.e., information handling system) which provides instruction and direction (i.e., troubleshooting; P[0378]) using pre-scripted options. It is inherent that a web-based self-help wizard comprises web page references. Macleod further discloses telephone conversations where agents use scripts (P[0091]). Macleod also discloses contact sessions that include self-help wizards and live assistance (i.e., a telephone call). (P[0391]).

21. **Claims 5, 6, 7, 16 and 18:** Macleod discloses clients first accessing a self-help wizard then requiring live assistance (i.e., telephone call) (P[0391]) and offering "an I-phone option" for direct customer service (P[0120]) via window 133 (a web-based form) (P[0106]). Macleod also discloses routines comprising various steps (i.e., paths) for performing processes may be determined by rules (i.e., predetermined). (P[0095]).
22. Macleod does not disclose highlighting paths according to relative volume of contacts associated with the edges.
23. Leshem, however, discloses determining probable paths taken by visitors to a web site (C28; L27-30) and displaying using a color-coding scheme (C29; L1-5) and associating different link colors with different relative levels of user activity. (C29; L3-5).
24. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have included highlighting paths, as disclosed by Leshem, in the system of Macleod for the motivation of providing a method of tracking user activity and behavior patterns to graphically display the information on a site map. (Leshem; C27; L63-66). This feature permits fine-grain inspection of the site usage data which is useful for analyzing security attacks and studying visitor behavior patterns. (Leshem; C30; L35-38). Color-coding is a well known means of drawing a user's attention to data of specific interest, such as, associating different link colors with different relative levels of user activity. (Leshem; C29; L3-5).
25. **Claims 9, 10 and 17:** Macleod discloses displaying multimedia threading for relating each multimedia interaction, whether incoming to or out going from, the system (P[0151]), but does not disclose displaying edges, nodes or a directed graph.
26. Leshem, however, discloses displaying URLs of a site map where each "visible link is displayed as a one-way arrow (indicating link direction)" (C29; L8-13), nodes interconnected by edges (C19; L37-39); displaying entry and exit points (C28; L3-7); distinguishing incoming links to a parent from out-going links from the parent (C15; L13-16) and complete path display (C30; L31-38).
27. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have included complete path display, as disclosed by Leshem, in the system of Macleod for the

motivation of permitting fine-grain inspection of the site usage data which is useful for analyzing security attacks and studying visitor behavior patterns. (Leshem; C30; L35-38) One would be motivated to expand Macleod to use this data analysis means to supplement its STM module that is geared toward improving customer service and streamlining operations. (Macleod; P[0311]).

28. **Claim 19 and 20:** Macleod discloses clients first accessing a self-help wizard (first contact medium) then requiring live assistance (i.e., telephone call-second contact medium) (P[0391]) and offering "an I-phone option" for direct customer service (P[0120]) via window 133 (a web-based form) (P[0106]). Macleod also discloses routines comprising various steps (i.e., paths) for performing processes may be determined by rules (i.e., predetermined). (P[0095]). Macleod also discloses using mined data to affect routing of interactions and creating new dialog that results in new thread additions (i.e., altering the information associated with a product reference to impact user interactions) (P[0164]). Macleod also discloses reporting the ratio of the number of clients successfully using the wizard to the number that used the wizard, then required live assistance, to more effectively design various self-help scripts. (P[0391]).
29. Macleod does not disclose identifying nodes with an edge having a predetermined characteristic.
30. Leshem, however, discloses determining probable paths taken by visitors to a web site (C28; L27-30) and displaying using a color-coding scheme (C29; L1-5) and associating different link colors with different relative levels of user activity (i.e., predetermined characteristic). (C29; L3-5).
31. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have included identifying nodes with an edge, as disclosed by Leshem, in the system of Macleod for the motivation of providing a method of tracking user activity and behavior patterns to graphically display the information on a site map. (Leshem; C27; L63-66). This feature permits fine-grain inspection of the site usage data which is useful for analyzing security attacks and studying visitor behavior patterns. (Leshem; C30; L35-38). In combination with Macleod, using Leshem's system to track user activity associated with using a wizard, followed by using an I-phone option where the client gets direct customer service (P[0120]), one detects the node associated with live assistance and therefore is able to determine the ratio of the number of

clients successfully using the wizard to the number that used the wizard, then required live assistance. (P[0391]) This information allows the system of Macleod to improve scripts to drive client behavior to answer his own questions without substantial assistance, thus freeing agents to handle other issues. (Macleod; P[0018]).

Response to Arguments

32. Applicant's arguments filed May 5, 2008 have been fully considered but they are not persuasive.
33. Applicant's arguments do not comply with 37 CFR 1.111(c) because they do not clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. Further, Applicant has referred to an incorrect citation for disclosure of "a directed graph having a node for each labeled reference" and "a directed graph having a node associated with each product information labeled reference". The Examiner did not rely upon P[0156] of Macleod Beck et al., as stated by Applicant. Rather, the Office Action references Leshem et al. for this teaching. Leshem discloses displaying URLs (i.e., a node for a product information labeled reference (C19; L37-38)) of a site map where each "visible link is displayed as a one-way arrow (indicating link direction)" (C29; L8-13), nodes interconnected by edges (C19; L37-39) and "using access date/time stamps to determine the chronological sequence of URLs followed by each visitor" (C28; L33-35). Color coding is used to display the user activity (C27; L62-65) Fig. 19 is a directed graph displayed by the system.)
34. With respect to the previous objections made to Figures 2 and 3, the Examiner notes the amendments to Figure 2, however, there are incomplete. The Examiner maintains the objections to Figure 3 and the associated text of the specification for not providing reference numbers that allow correlation.
35. The response submitted May 5, 2008 was unresponsive to the objection of the specification for failure to define the term, "SRG".

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gabrielle McCormick whose telephone number is (571)270-1828. The examiner can normally be reached on Monday - Thursday (5:30 - 4:00 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Weiss can be reached on 571-272-6812. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/728,692

Page 11

Art Unit: 3629

/John G. Weiss/

Supervisory Patent Examiner, Art Unit 3629